

Research and Special Programs Administration, DOT

§ 179.1

Subpart E—Specifications for Multi-Unit Tank Car Tanks (Classes DOT-106A and 110AW)

- 179.300 General specifications applicable to multi-unit tank car tanks designed to be removed from car structure for filling and emptying (Classes DOT-106A and 110AW).
- 179.300-1 Tanks built under these specifications shall meet the requirements of § 179.300, § 179.301 and when applicable, § 179.302.
- 179.300-3 Type and general requirements.
- 179.300-4 Insulation.
- 179.300-6 Thickness of plates.
- 179.300-7 Materials.
- 179.300-8 Tank heads.
- 179.300-9 Welding.
- 179.300-10 Postweld heat treatment.
- 179.300-12 Protection of fittings.
- 179.300-13 Venting, loading and unloading valves.
- 179.300-14 Attachments not otherwise specified.
- 179.300-15 Safety relief devices.
- 179.300-16 Tests of tanks.
- 179.300-17 Tests of safety relief devices.
- 179.300-18 Stamping.
- 179.300-19 Inspection.
- 179.300-20 Reports.
- 179.301 Individual specification requirements for multi-unit tank car tanks.
- 179.302 [Reserved]

Subpart F—Specification for Cryogenic Liquid Tank Car Tanks and Seamless Steel Tanks (Classes DOT-113 and 107A)

- 179.400 General specification applicable to cryogenic liquid tank car tanks.
- 179.400-1 General.
- 179.400-3 Type.
- 179.400-4 Insulation system and performance standard.
- 179.400-5 Materials.
- 179.400-6 Bursting and buckling pressure.
- 179.400-7 Tank heads.
- 179.400-8 Thickness of plates.
- 179.400-9 Stiffening rings.
- 179.400-10 Sump or siphon bowl.
- 179.400-11 Welding.
- 179.400-12 Postweld heat treatment.
- 179.400-13 Support system for inner tank.
- 179.400-14 Cleaning of inner tank.
- 179.400-15 Radioscopy.
- 179.400-16 Access to inner tank.
- 179.400-17 Inner tank piping.
- 179.400-18 Test of inner tank.
- 179.400-19 Valves and gages.
- 179.400-20 Pressure relief devices.
- 179.400-21 Test of pressure relief valves.
- 179.400-22 Protective housings.
- 179.400-23 Operating instructions.
- 179.400-24 Stamping.
- 179.400-25 Stenciling.

- 179.401 Individual specification requirements applicable to inner tanks for cryogenic liquid tank car tanks.
- 179.401-1 Individual specification requirements.
- 179.500 Specification DOT-107A * * * *, seamless steel tank car tanks.
- 179.500-1 Tanks built under these specifications shall meet the requirements of § 179.500.
- 179.500-3 Type and general requirements.
- 179.500-4 Thickness of wall.
- 179.500-5 Material.
- 179.500-6 Heat treatment.
- 179.500-7 Physical tests.
- 179.500-8 Openings in tanks.
- 179.500-10 Protective housing.
- 179.500-11 Loading and unloading valves.
- 179.500-12 Safety relief devices.
- 179.500-13 Fixtures.
- 179.500-14 Test of tanks.
- 179.500-15 Handling of tanks failing in tests.
- 179.500-16 Tests of safety relief devices.
- 179.500-17 Marking.
- 179.500-18 Inspection and reports.

APPENDIX A TO PART 179—PROCEDURES FOR TANK-HEAD PUNCTURE-RESISTANCE TEST

APPENDIX B TO PART 179—PROCEDURES FOR SIMULATED POOL AND TORCH-FIRE TESTING

AUTHORITY: 49 U.S.C. 5101-5127; 49 CFR part 1.53.

SOURCE: 29 FR 18995, Dec. 29, 1964, unless otherwise noted. Redesignated at 32 FR 5606, Apr. 5, 1967.

EDITORIAL NOTE: The technical amendment appearing at 35 FR 13835, Sept. 1, 1970, deleted the separating hyphens from references to specification identifications of tank cars.

Subpart A—Introduction, Approvals and Reports

§ 179.1 General.

(a) This part prescribes the specifications for tanks that are to be mounted on or form part of a tank car and which are used for the transportation of hazardous materials in commerce.

(b) Except as provided in paragraph (c) of this section, tanks to which this part is applicable, must be built to the specifications prescribed in this part.

(c) Tanks built to specifications predating those in this part may continue in use as provided in § 180.507 of this subchapter.

(d) Any person who performs a function prescribed in this part, shall perform that function in accordance with this part.

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(e) When this part requires a tank to be marked with a DOT specification (for example, DOT-105A100W), compliance with that requirement is the responsibility of the tank builder. Marking the tank with the DOT specification shall be understood to certify compliance by the builder that the functions performed by the builder, as prescribed in this part, have been performed in compliance with this part.

(f) The tank builder should inform each person to whom that tank is transferred of any specification requirements which have not been met at time of transfer.

[Amdt. 179-17, 41 FR 38183, Sept. 9, 1976, as amended by Amdt. 179-50, 60 FR 49076, Sept. 21, 1995]

§ 179.2 Definitions and abbreviations.

(a) The following apply in part 179:

(1) *AAR* means Association of American Railroads.

(2) *Approved* means approval by the AAR Committee on Tank Cars.

(3) *ASTM* means American Society for Testing and Materials.

(4) *DOT* and *Department* means Department of Transportation.

(5) Definitions in part 173 of this chapter also apply.

(6) *F* means degrees Fahrenheit.

(7) *NGT* means National Gas Taper Threads.

(8) *NPT* means American Standard Tape Pipe Thread.

(9) *Psi* means pounds per square inch gauge.

(10) *Tank car facility* means an entity that manufactures, repairs, inspects, tests, qualifies, or maintains a tank car to ensure that the tank car conforms to this part and subpart F of part 180 of this subchapter, that alters the certificate of construction of the tank car, that ensures the continuing qualification of a tank car by performing a function prescribed in parts 179 or 180 of this subchapter, or that makes any representation indicating compliance with one or more of the requirements of parts 179 or 180 of this subchapter.

(11) *Tanks* means tank car tanks.

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(b) [Reserved]

[29 FR 18995, Dec. 20, 1964. Redesignated at 32 FR 5606, Apr. 5, 1967, and amended by Amdt. 179-10, 36 FR 21344, Nov. 6, 1971; Amdt. 179-50, 60 FR 49076, Sept. 21, 1995; Amdt. 179-50, 61 FR 33255, June 26, 1996]

§ 179.3 Procedure for securing approval.

(a) Application for approval of designs, materials and construction, conversion or alteration of tank car tanks under these specifications, complete with detailed prints, shall be submitted in prescribed form to the Secretary, Mechanical Division, AAR, for consideration by its Committee on Tank Cars and other appropriate committees. Approvals or rejections of applications, based on appropriate committee action, shall be issued by said Secretary.

(b) When, in the opinion of the Committee, such tanks or equipment therefor are in compliance with effective regulations and specifications of the Department, the application will be approved.

(c) When, in the opinion of the Committee, such tanks or equipment therefor are not in compliance with effective regulations and specifications of the Department, the Committee may recommend service trials to determine the merits of a change in specifications. Such service trials may be authorized by the Department under the terms of exemptions.

[29 FR 18995, Dec. 29, 1964. Redesignated at 32 FR 5606, Apr. 5, 1967 and amended by Amdt. 179-41, 52 FR 36672, Sept. 30, 1987]

§ 179.4 Changes in specifications for tank cars.

(a) Proposed changes in or additions to specifications for tanks shall be submitted to the Secretary, Mechanical Division, AAR, for consideration by its Committee on Tank Cars. An application for construction of tanks to any new specification may be submitted with proposed specification. Construction should not be started until the specification has been approved or an exemption has been issued. When proposing a new specification, the applicant shall furnish information to justify a new specification. This data